

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atsuhiko YAMASHITA

Application No.: 10/813,630

Filed: March 31, 2004

For: DISPLAY ELEMENT AND DISPLAY DEVICE

: Customer Number: 20277

: Confirmation Number: 3848

: Group Art Unit: 2873

: Examiner: Not yet assigned

:

SECOND REQUEST FOR CORRECTED FILING RECEIPT

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P.O. Box 1450
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Sir:

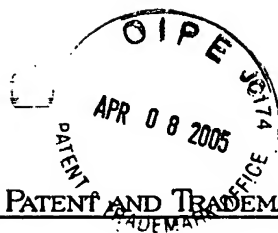
Attached is a copy of the Updated Filing Receipt received from the U.S. Patent and Trademark Office in the above-referenced application. It is noted that the Independent and Total Claims are incorrect. Attached is a copy of the Official Filing Receipt mailed on June 16, 2004 and the Claims, which both evidence that the Total Claims should read: 20, and the Independent Claims should read: 3. It is requested that a corrected filing receipt be issued.

Respectfully submitted,

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/813,630	03/31/2004	2873	900	65933-085	14	X 8	1

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CONFIRMATION NO. 3848

UPDATED FILING RECEIPT



OC000000013672927

Date Mailed: 08/31/2004

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Applicant(s)

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Power of Attorney:

Arthur Steiner--26106

Domestic Priority data as claimed by applicant

Foreign Applications

JAPAN JP2003-097055 03/31/2003
JAPAN JP2003-097056 03/31/2003

If Required, Foreign Filing License Granted: 06/15/2004

**The number of your priority application, to be used for filing abroad under the Paris Convention is,
US10/813,630**

Projected Publication Date: 12/09/2004

Non-Publication Request: No

Early Publication Request: No

5 10057

12 1204

MW&E

Title

Display element and display device

Preliminary Class

345

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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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10/813,630	03/31/2004	2873	0.00	65933-085	14	20	3

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CONFIRMATION NO. 3848

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Date Mailed: 06/16/2004

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Applicant(s)

Atsuhiko Yamashita, Residence Not Provided;

Domestic Priority data as claimed by applicant

Foreign Applications

JAPAN 2003-097055 03/31/2003
JAPAN 2003-097056 03/31/2003

If Required, Foreign Filing License Granted: 06/15/2004

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

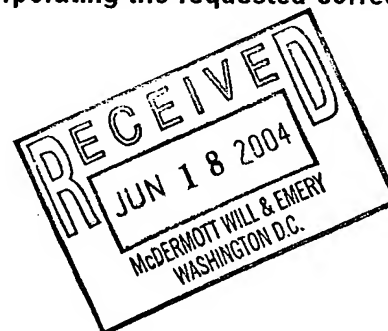
Early Publication Request: No

Title

Display element and display device

Preliminary Class

345



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WHAT IS CLAIMED IS:

1. A digital-driven display element comprising:

a light emitting element which emits light when an electric current is supplied thereto;

a driving transistor which controls the supply of the electric current to the light emitting element and is operated in a linear region; and

an electric current adjustment element which is connected to the light emitting element and the driving transistor in series, to adjust the electric current flowing through the light emitting element.

2. The display element according to claim 1, wherein

the electric current adjustment element is a transistor.

3. The display element according to claim 2, wherein

a signal same as that inputted to a gate electrode of the driving transistor is inputted to a gate electrode of the transistor.

4. The display element according to claim 2, wherein

a control signal for variably controlling the electric current flowing through the light emitting element is inputted to a gate electrode of the transistor.

5. A display device comprising the display elements according to claim 1 arranged in matrix

6. A display device comprising the display elements according to claim 2 arranged in matrix

7. A display device comprising the display elements according to claim 3 arranged in matrix

8. A display device comprising the display elements according to claim 4 arranged in matrix

9. A digital-driven display device comprising:

a plurality of pixel circuits, each of the plurality of pixel circuits comprising

a light emitting element which emits light when an electric current is supplied thereto, and

a driving transistor which controls the supply of the electric current to the light emitting element and is operated in a linear region; and

a power source line through which the electric current is supplied to the light emitting element of each pixel circuit,

the power source line branching from a first power source on a side of high electric potential to each pixel circuit at a first node, and converging from each pixel

circuit at a second node, and then being connected to a second power source on a side of low electric potential, and an electric current adjustment circuit which adjusts the electric current flowing through the light emitting element being disposed between the first node and the first power source.

10. The display device according to claim 9, wherein

when the electric current at the first node decreases, the electric current adjustment circuit increases the electric potential of the first node, in order to move an operating point of the driving transistor in a direction of increasing the electric current.

11. A digital-driven display device comprising:

a plurality of pixel circuits, each of the plurality of pixel circuits comprising

a light emitting element which emits light when an electric current is supplied thereto, and

a driving transistor which controls the supply of the electric current to the light emitting element and is operated in a linear region; and

a power source line through which the electric current is supplied to the light emitting element of each pixel circuit,

the power source line branching from a first power

source on a side of high electric potential to each pixel circuit at a first node, and converging from each pixel circuit at a second node, and then being connected to a second power source on a side of low electric potential, and an electric current adjustment circuit which adjusts the electric current flowing through the light emitting element being disposed between the second node and the second power source.

12. The display device according to claim 11, wherein

when the electric current at the second node decreases, the electric current adjustment circuit decreases the electric potential of the second node, in order to move an operating point of the driving transistor in a direction of increasing the electric current.

13. The display device according to claim 9, wherein

the electric current adjustment circuit is a transistor.

14. The display device according to claim 10, wherein

the electric current adjustment circuit is a transistor.

15. The display device according to claim 11, wherein

the electric current adjustment circuit is a transistor.

16. The display device according to claim 12, wherein

the electric current adjustment circuit is a transistor.

17. The display device according to claim 9, wherein

the electric current adjustment circuit is a resistor element.

18. The display device according to claim 10, wherein

the electric current adjustment circuit is a resistor element.

19. The display device according to claim 11, wherein

the electric current adjustment circuit is a resistor element.

20. The display device according to claim 12, wherein

the electric current adjustment circuit is a resistor element.